

Title (en)

Flexible, self-supporting and biodegradable films and their production.

Title (de)

Biegsame, biologisch abbaubare, selbsttragende Folien und ihre Herstellung.

Title (fr)

Feuilles flexibles biodégradables sans support et leur fabrication.

Publication

EP 0032802 A1 19810729 (EN)

Application

EP 81300124 A 19810113

Priority

US 11298080 A 19800117

Abstract (en)

[origin: US4337181A] Film-forming formulations comprising starch, ethylene acrylic acid copolymer, and optionally polyethylene, can be blown into films upon neutralization of a portion of the copolymer acid functionality. The resultant biodegradable films have potential application as agricultural mulch, garbage bags, and various types of packaging.

IPC 1-7

C08J 5/18; **C08L 3/02**; **C08L 23/08**

IPC 8 full level

C08L 23/00 (2006.01); **C08J 5/18** (2006.01); **C08K 3/28** (2006.01); **C08K 5/00** (2006.01); **C08L 1/00** (2006.01); **C08L 3/00** (2006.01); **C08L 3/02** (2006.01); **C08L 23/06** (2006.01); **C08L 23/08** (2006.01); **C08L 27/00** (2006.01); **C08L 33/00** (2006.01); **C08L 33/02** (2006.01); **C08L 89/00** (2006.01); **C08L 101/00** (2006.01); **A61F 13/15** (2006.01)

CPC (source: EP US)

C08J 5/18 (2013.01 - EP US); **C08K 5/0033** (2013.01 - EP US); **C08L 3/02** (2013.01 - EP US); **C08L 23/06** (2013.01 - EP US); **C08L 23/0869** (2013.01 - EP US); **A61F 2013/51433** (2013.01 - EP US); **C08J 2323/08** (2013.01 - EP US); **Y10S 260/43** (2013.01 - EP US)

C-Set (source: EP US)

1. **C08L 3/02** + **C08L 23/08**
2. **C08K 5/0033** + **C08L 23/08**
3. **C08L 3/02** + **C08L 2666/02**
4. **C08L 23/06** + **C08L 2666/02**
5. **C08L 23/0869** + **C08L 2666/02**

Citation (search report)

- US 3949145 A 19760406 - OTEY FELIX H, et al
- CHEMICAL ABSTRACTS, Vol. 87, No. 24, 12th December 1977, page 33, No. 185424d Columbus, Ohio, U.S.A. F.H. OTEY et al.: "Biodegradable films from starch and ethyleneacrylic acid copolymer" & IND. ENG. CHEM. PROD. RES. DEV. 1977, 16(4), 305-308 * Abstract *
- CHEMICAL ABSTRACTS, Vol. 87, No. 4, 25th July 1977, page 13, No. 23921m Columbus, Ohio, U.S.A. G.J.L. GRIFFIN et al.: "Biodegradation of ethylene/vinylacetate copolymers" & PROC. INT. BIODEGRADATION SYMP., 3rd 1975 (Pub. 1976), 807-813 * Abstract *

Cited by

US9328223B2; US10196490B2; US10759911B2; EP0402826A1; EP0494073A1; US5462980A; US5384170A; EP0942040A1; US5292782A; US5258430A; US5095054A; EP0758669A3; EP0400531A1; US5462982A; EP0444880A3; EP0417828A1; US5334634A; DE4134190A1; EP0537657A3; US5032337A; US5296526A; US5360844A; EP0132299A3; US5262458A; GR900100160A; US5234977A; CN101831098A; GR900100585A; EP0471402A3; US5234978A; US2015141555A1; US6096809A; AU660207B2; US5512378A; US8916629B2; US6214907B1; EP0525245A1; US5286770A; US5412005A; EP0409788A3; US5409973A; US5288765A; US5360830A; EP2307495A4; AU2009276300B2; WO8910381A1; WO9104286A1; WO2013137711A1; US6235816B1; WO9102023A1; WO9102025A1; WO9010671A1; US9650475B2; US9988503B2; EP0495950B2

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DOCDB simple family (application)

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